

**WHAT IS CLAIMED IS:**

1. A method for operating a voice function including a voice recognition function and a function for outputting a voice memo in a dual-mode radio mobile terminal, the terminal including a vocoder for converting data between PCM format and packet format, comprising steps of:

determining whether a request for the voice function is input or not;  
switching the vocoder into digital mode to operate the voice function; and  
operating the voice function in digital mode.

2. The method for operating a voice function as claimed in claim 1, wherein the vocoder is switched from PCM mode to packet mode.

3. The method for operating a voice function as claimed in claim 2, further comprising the step of switching the vocoder back to PCM mode if a call request is input during operation of the voice function in packet mode.

4. The method for operating a voice function as claimed in claim 2, further comprising the step of switching the vocoder back to PCM mode if the voice function is terminated.

5. A method for operating a voice function including speaker's voice recognition and output of stored information by voice in a mobile terminal, the mobile terminal including a vocoder for converting data between PCM format and packet format, comprising the steps of:

determining whether a request for the voice function is input or not;  
switching the vocoder from PCM mode to packet mode;  
operating the voice function; and  
switching the vocoder back to PCM mode if the voice function is terminated.

6. A method for operating a voice function including speaker's voice recognition and voice output of stored information in a mobile terminal, the mobile terminal including a vocoder for converting data between PCM format and packet format, comprising the steps of:

- determining whether a request for the voice-function is input or not;
- switching a vocoder from PCM mode to packet mode;
- selecting one of voice recognition function and voice output function;
- operating the selected function; and
- switching the vocoder back to PCM mode if the voice function is terminated.